

I claim:

1. A medical bandaging product, comprising:
  - (a) a package formed of a moisture-impervious material and sealable to prevent entry of moisture;
  - (b) a medical bandage positioned within the package in substantially moisture-free conditions and sealed therein against moisture until use, the medical bandage comprising:
    - (i) a fabric having a pair of opposed, major surfaces; and
    - (ii) a reactive system impregnated into or coated onto the fabric, the system remaining stable when maintained in substantially moisture-free conditions and hardening upon exposure to sufficient moisture to form a self supporting structure having an immobilization value of less than about 43 pounds.
2. A medical bandaging product according to claim 1, wherein the fabric comprises a knitted fabric.
3. A medical bandaging product according to claim 1, wherein the fabric comprises a knitted fabric fabricated from high tenacity polyester and high-tenacity polypropylene yarns.
4. A medical bandaging product according to claim 3, wherein the fabric includes an elastic yarn.

5. A medical bandaging product according to claim 1, 2, 3 or 4, wherein the medical bandage comprises a rolled elongate tape.
6. A medical bandaging product according to claim 1, wherein the immobilization value is between about 30 and 43 pounds.
7. A medical bandaging product according to claim 1, wherein the medical bandage is fabricated from high tenacity polypropylene, high tenacity polyester and an elastic yarn.
8. A medical bandaging product according to claim 7, wherein the high tenacity polypropylene yarn comprises 470 Dtex yarn, the high tenacity polyester yarn comprises 280 Dtex yarn and the elastic yarn comprises 70 Dtex uncovered Elastane.
9. A medical bandaging product according to claim 1, wherein the reactive system comprises a blended polyisocyanate, polyol, catalyst and stabilizer.

10. A medical bandaging product according to claim 9, wherein the polyol comprises a 55 percent by weight polyol blend.

11. A medical bandaging product according to claim 1, wherein the medical bandage has a reactive system add-on of between about 50 and 56 percent by weight.

12. A cast tape, comprising:

(a) an elongate bandage for being positioned within a package in substantially moisture-free conditions and sealed therein against moisture until use, the bandage comprising:

(i) a fabric having a pair of opposed, major surfaces; and  
(ii) a reactive system impregnated into or coated onto the fabric, the system remaining stable when maintained in substantially moisture-free conditions and hardening upon exposure to sufficient moisture to form a self supporting structure having an immobilization value of less than about 43.

13. A cast tape according to claim 12, wherein the fabric comprises a knitted fabric.

14. A cast tape according to claim 12, wherein the fabric comprises a knitted fabric fabricated from high tenacity polyester and high-tenacity polypropylene yarns.
15. A cast tape according to claim 14, wherein the fabric includes an elastic yarn.
16. A cast tape according to claim 12, 13, 14 or 15, wherein the cast tape is formed into a roll.
17. A cast tape according to claim 12, wherein the immobilization value is between about 30 and 43.
18. A cast tape according to claim 12, wherein the cast tape is fabricated from high tenacity polypropylene, high tenacity polyester and an elastic yarn.
19. A cast tape according to claim 18, wherein the high tenacity polypropylene yarn comprises 470 Dtex yarn, the high tenacity polyester yarn comprises 280 Dtex yarn and the elastic yarn comprises 70 Dtex uncovered Elastane.

20. A cast tape according to claim 12, wherein the reactive system comprises a blended polyisocyanate, polyol, catalyst and stabilizer.

21. A cast tape according to claim 20, wherein the polyol comprises a 55 percent by weight polyol blend.

22. A cast tape according to claim 12, wherein the medical bandage has a reactive system add-on of between about 50 and 56 percent by weight.